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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/943,838	08/31/2001	Michael A. D'Annunzio	7784-000193	2811

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EXAMINER

PHAN, TAM T

ART UNIT PAPER NUMBER

2144

DATE MAILED: 03/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/943,838

Applicant(s)

D'ANNUNZIO ET AL.

Examiner

Tam (Jenny) Phan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 17 March 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 2.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Priority*

1. No priority claims have been made.
2. The effective filing date for the subject matter defined in the pending claims in this application is 08/31/2001.

### *Information Disclosure Statement*

3. An initialed and dated copy of Applicant's IDS form 1449, Paper No. 2, is attached to the instant Office action.

### *Claim Rejections - 35 USC § 102*

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Carneal et al. (WO 99/08429), hereinafter referred to as Carneal.
6. Regarding claim 1, Carneal disclosed a communications system for providing a communications link between a ground station and a mobile platform via a satellite (Abstract) comprising: a parent proxy server connected to a ground station (Abstract, Figures 3, 5-6, page 5 lines 6-15, page 8 lines 11-19); a child proxy server located on a mobile platform (Abstract, Figures 3, 5-6, page 5 lines 6-15, page 8 lines 11-19); wherein said child and parent proxy servers establish a persistent transmission control protocol (TCP) link between said mobile platform and said ground station (Abstract, Figure 6, page 4 lines 11-20).

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7. Regarding claim 2, Carneal disclosed a communications system further comprising: a user communication device (UCD) located on said mobile platform and connected to said child proxy server (Figures 5-6).
8. Regarding claim 3, Carneal disclosed a communications system further comprising: a router that is located on said mobile platform and that is connected to said child proxy server (Figures 5-6).
9. Regarding claim 4, Carneal disclosed a communications system further comprising: a web cache service that is located on said mobile platform and that is connected to said child proxy server (Figure 6).
10. Regarding claim 5, Carneal disclosed a communications system wherein said web cache service stores web pages in cache (page 9 lines 1-7, 9-13).
11. Regarding claim 6, Carneal disclosed a communications system wherein said child proxy server accesses said web pages in said web cache service if said UCD requests access to said web pages (Figure 7, page 5 lines 19-21, claim 2).
12. Regarding claim 7, Carneal disclosed a communications system for providing a communications link between a distributed communications system and a mobile platform via a satellite (Abstract), comprising: a ground station; a parent proxy server connected to said ground station; a distributed communications system connected to said parent proxy server; a satellite that communicates with said ground station; a transceiver located on a mobile platform that communicates with said satellites; a router connected to said transceiver; a child proxy server connected to said router; and a user communication device (UCD) connected to said child proxy server, wherein said child and parent proxy servers establish a persistent transmission control protocol (TCP) link between said

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mobile platform and said ground station (Abstract, Figures 3, 5-6, page 4 lines 11-21, page 5 lines 6-15, page 8 lines 11-19).

13. Regarding claim 8, Carneal disclosed a communications system wherein said UCD connects to said child proxy server using a first group of TCP settings (Abstract, Figures 5-6, page 5 lines 7-15).

14. Regarding claim 9, Carneal disclosed a communications system wherein said parent and child proxy servers communicate using a second group of TCP settings (Abstract, Figures 5-6, page 5 lines 7-15).

15. Regarding claim 10, Carneal disclosed a communications system further comprising: a web cache service that is located on said mobile platform and that is connected to said child proxy server (Figures 5-6, page 9 lines 1-7).

16. Regarding claim 11, Carneal disclosed a communications system wherein said web cache service stores web pages (page 9 lines 1-7, lines 9-13).

17. Regarding claim 12, Carneal disclosed a communications system wherein said child proxy server accesses said web pages in said web cache service if said UCD requests access to said web pages (Figure 7, page 5 lines 19-21, claim 2).

18. Regarding claims 13-18, the method for providing a communication link corresponds directly to the system of claims 1-6, and thus these claims are rejected using the same rationale.

19. Regarding claim 19, Carneal disclosed a method wherein said UCD connects to said child proxy server using a first group of TCP settings and wherein said child and parent proxy servers communicate using a second group of TCP settings to optimize said persistent link (Abstract, Figures 5-6, page 11 lines 20-25).

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20. Regarding claim 20, Carneal disclosed a method for providing a communications link for mobile platforms via a satellite (Abstract), comprising the steps of: connecting a parent proxy server to a ground station; providing a transceiver on a mobile platform; connecting a child proxy server to said transceiver; establishing a communications link between said transceiver and said ground station via a satellite; and setting transmission control protocol (TCP) parameters of said communications link between said child and parent proxy servers for satellite links (Figures 5-6, page 4 lines 11-27, page 8 lines 11-19).

21. Regarding claim 21, Carneal disclosed a method further comprising the step of connecting a distributed communications system to said parent proxy server (Abstract, Figures 5-6).

22. Regarding claim 22, Carneal disclosed a method of claim 20 further comprising the step of connecting a user communication device (UCD) to said child proxy server (Abstract, Figures 5-6).

23. Regarding claim 23, Carneal disclosed a method wherein said UCD connects to said child proxy server using a first group of TCP settings and wherein said child and parent proxy servers communicate using a second group of TCP settings (Abstract, Figures 5-6, page 5 lines 6-15).

24. Since all the limitations of the claimed invention were disclosed by Carneal, claims 1-23 are rejected.

25. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

26. Claims 1-23 are rejected under 35 U.S.C. 102(a) as being anticipated by Chrungoo et al. (“Smart Proxy: Reducing Latency for HTTP Based Web Transfers Across Satellite Links” December 2000).
27. Regarding claim 1, Chrungoo disclosed a communications system for providing a communications link between a ground station and a mobile platform via a satellite (Title) comprising: a parent proxy server connected to a ground station; a child proxy server located on a mobile platform; wherein said child and parent proxy servers establish a persistent transmission control protocol (TCP) link between said mobile platform and said ground station (Title, Abstract, Figure 1, Figure 2, page 573).
28. Regarding claim 2, Chrungoo disclosed a communications system further comprising: a user communication device (UCD) located on said mobile platform and connected to said child proxy server (Abstract, Figure 1, page 573 column 1: Smart Proxy).
29. Regarding claim 3, Chrungoo disclosed a communications system further comprising: a router that is located on said mobile platform and that is connected to said child proxy server (Figures 1-2).
30. Regarding claim 4, Chrungoo disclosed a communications system further comprising: a web cache service that is located on said mobile platform and that is connected to said child proxy server (Figures 1-2).
31. Regarding claim 5, Chrungoo disclosed a communications system wherein said web cache service stores web pages in cache (Abstract, Figures 1-2, page 575 column 2).

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32. Regarding claim 6, Chrungoo disclosed a communications system wherein said child proxy server accesses said web pages in said web cache service if said UCD requests access to said web pages (Abstract, Figure 1, page 573: Smart Proxy).

33. Regarding claim 7, Chrungoo disclosed a communications system for providing a communications link between a distributed communications system and a mobile platform via a satellite (Title) comprising: a ground station; a parent proxy server connected to said ground station; a distributed communications system connected to said parent proxy server; a satellite that communicates with said ground station; a transceiver located on a mobile platform that communicates with said satellites; a router connected to said transceiver; a child proxy server connected to said router; and a user communication device (UCD) connected to said child proxy server, wherein said child and parent proxy servers establish a persistent transmission control protocol (TCP) link between said mobile platform and said ground station (Title, Abstract, Figures 1-2, page 573: Smart Proxy, page 575 column 2).

34. Regarding claim 8, Chrungoo disclosed a communications system wherein said UCD connects to said child proxy server using a first group of TCP settings (Figure 1, page 573: Smart Proxy).

35. Regarding claim 9, Chrungoo disclosed a communications system wherein said parent and child proxy servers communicate using a second group of TCP settings (Figure 1, page 573: Smart Proxy).

36. Regarding claim 10, Chrungoo disclosed a communications system further comprising: a web cache service that is located on said mobile platform and that is connected to said child proxy server (Figure 1, page 573: Smart Proxy).



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37. Regarding claim 11, Chrungoo disclosed a communications system wherein said web cache service stores web pages (Abstract).

38. Regarding claim 12, Chrungoo disclosed a communications system wherein said child proxy server accesses said web pages in said web cache service if said UCD requests access to said web pages (Figure 1, page 573: Smart Proxy).

39. Regarding claims 13-18, the method for providing a communication link corresponds directly to the system of claims 1-6, and thus these claims are rejected using the same rationale.

40. Regarding claim 19, Chrungoo disclosed a method wherein said UCD connects to said child proxy server using a first group of TCP settings and wherein said child and parent proxy servers communicate using a second group of TCP settings to optimize said persistent link (Abstract, Figures 1-2, page 573: Smart Proxy).

41. Regarding claim 20, Chrungoo disclosed a method for providing a communications link for mobile platforms via a satellite (Abstract), comprising the steps of: connecting a parent proxy server to a ground station; providing a transceiver on a mobile platform; connecting a child proxy server to said transceiver; establishing a communications link between said transceiver and said ground station via a satellite; and setting transmission control protocol (TCP) parameters of said communications link between said child and parent proxy servers for satellite links (Title, Abstract, Figures 1-2, page 573, page 575).

42. Regarding claim 21, Chrungoo disclosed a method further comprising the step of connecting a distributed communications system to said parent proxy server (Abstract, Figures 1-2, page 573: Smart Proxy).

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43. Regarding claim 22, Chrungoo disclosed a method of claim 20 further comprising the step of: connecting a user communication device (UCD) to said child proxy server (Abstract, Figures 1-2, page 573: Smart Proxy).

44. Regarding claim 23, Chrungoo disclosed a method wherein said UCD connects to said child proxy server using a first group of TCP settings and wherein said child and parent proxy servers communicate using a second group of TCP settings (Abstract, Figures 1-2, page 573: Smart Proxy).

45. Since all the limitations of the claimed invention were disclosed by Chrungoo, claims 1-23 are rejected.

### *Conclusion*

46. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Refer to the enclosed PTO-892 for details.

a. Burns et al. (U.S. Patent Number 6,324,182) disclosed a system and method for intelligent caching of web pages in satellite networks.

b. Dillon et al. (US. Patent Number 6,658,463) disclosed a satellite communication system including an upstream proxy server and two downstream proxy servers for caching web pages.

47. Refer to the enclosed PTO-892 for details and complete listing of other pertinent prior art of record.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tam (Jenny) Phan whose telephone number is (703) 305-4665. The examiner can normally be reached on M-F 9:00-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Harvey can be reached on (703) 305-9705. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Jack Harvey  
SPE  
Art Unit 2142  
703-305-9705

  
JACK B. HARVEY  
SUPERVISORY PATENT EXAMINER

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March 5, 2004